

CERTIFICATE

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Document Name: SAE J592: Clearance, Side Marker and Identification Lamps

CFR Section(s): 49 CFR 571.108 Table III

Standards Body: Society of Automotive Engineers



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CLEARANCE, SIDE MARKER, AND IDENTIFICATION LAMPS—SAE J592e

SAE Standard

Report of Lighting Division approved January 1937 and last revised by Lighting Committee July 1972.

1. Scope—This standard provides test methods and requirements for clearance, side marker, and identification lamps.

2. Definitions

2.1 Clearance Lamps—Lamps which show to the front or rear of a vehicle, mounted on the permanent structure of the vehicle as near as practicable to the upper left and right extreme edges to indicate the overall width and height of the vehicle.

2.2 Side Marker Lamps—Lamps which show to the side of the vehicle, mounted on the permanent structure of the vehicle as near as practicable to the front and rear edges to indicate the overall length of the vehicle. Additional lamps may also be mounted at intermediate locations on the sides of the vehicle.

2.3 Combination Clearance and Side Marker Lamps—Single lamps which simultaneously fulfill the requirements of clearance and side marker lamps.

2.4 Identification Lamps—Lamps used in groups of three, in a horizontal row, which show to the front or rear or both, having lamp

centers spaced not less than 6 in (15.2 mm) nor more than 12 in (30.4 mm) apart, mounted on the permanent structure as near as practicable to the vertical centerline and the top of the vehicle to identify certain types of vehicle.

3. Laboratory Requirements

3.1 General Requirements—The following sections from SAE J575 are a part of this standard:

- 3.1.1 Section B—Samples for Test
- 3.1.2 Section C—Lamp Bulbs
- 3.1.3 Section D—Laboratory Facilities
- 3.1.4 Section E—Vibration Test
- 3.1.5 Section F—Moisture Test
- 3.1.6 Section G—Dust Test
- 3.1.7 Section H—Corrosion Test
- 3.1.8 Section J—Photometric Test
- 3.1.9 Section L—Warpage Test on Devices with Plastic Lenses

3.2 Color Test—The color of light from front clearance lamps, front and intermediate side marker lamps, and front identification lamps shall be yellow (amber). The color of light from rear clearance lamps, rear side marker lamps, and rear identification lamps shall be red. (See SAE J578.)

3.3 Plastic Materials—Any plastic materials used in optical parts shall comply with the requirements set forth in SAE J576.

3.4 Photometric Requirements—Photometric tests shall be made at a distance of at least 4 ft (1.2 m). The H-V axis of a clearance or identification lamp shall be taken as parallel with the longitudinal axis of the vehicle. The H-V axis of a side marker lamp shall be taken as normal to the longitudinal axis of the vehicle. The H-V axis of a combination clearance and side marker lamp shall be taken as parallel with the longitudinal axis of the vehicle when checking clearance lamp test points, and normal to this vehicle axis when checking side marker test points. In all cases, the H-V axis shall be taken as parallel to the surface on which the vehicle stands.

Candela requirements for clearance, identification, and side marker lamps are shown in Table 1. Combination clearance and side marker lamps shall comply with both clearance and side marker minimum candela requirements.

APPENDIX

As a matter of information, attention is called to the typical sockets shown in SAE J567.

TABLE 1—PHOTOMETRIC MINIMUM CANDELA REQUIREMENTS
CLEARANCE, SIDE MARKER, AND IDENTIFICATION LAMPS

	Test Points, deg	Clearance, Side Marker, and Identification Lamps	
		Red ^a	Yellow (Amber)
10U	45Lb	0.25	0.62
	V	0.25	0.62
	45Rb	0.25	0.62
H	45Lb	0.25	0.62
	V	0.25	0.62
	45Rb	0.25	0.62
10D	45Lb	0.25	0.62
	V	0.25	0.62
	45Rb	0.25	0.62

^aThe maximum light output for red clearance and identification lamps is 15 cd. When red clearance lamps are optically combined with stop or turn signal lamps, this maximum applies on or above the horizontal.

^bThe requirements for side markers used on vehicles less than 80 in (2m) wide may be met for inboard test points at a distance of 15 ft (4.5m) from the vehicle on a vertical plane that is perpendicular to the longitudinal axis of the vehicle and located midway between the front and rear side marker lamps.